IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF	:	Buckley
FOR	:	IMAGE QUALITY PROCESSING OF A COMPRESSED IMAGE
SERIAL NO.	:	09/919,085
FILED	:	July 31, 2001
EXAMINER	:	Duy M. Dang
ART UNIT	:	2621
CONFIRMATION NO.	:	2472
ATTORNEY DOCKET NO.	:	A0828-US-NP XERZ 2 00427

ELECTION AND RESPONSE TO RESTRICTION REQUIREMENT UNDER 35 U.S.C. § 121

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The Office Action issued in connection with the above-captioned application and dated September 15, 2004 has been received and carefully reviewed. The following response is provided.

CERTIFICATE OF MAILING

I hereby certify that this Election and Response to Restriction Requirement Under 35 U.S.C. § 121 in connection with Application Serial No. 10/141,584 is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

December 15, 2004
Date

Iris E. Weber
Iris E. Weber

Restriction Under 35 U.S.C. § 121

The Examiner asserts in the Office Action that the present application includes the following patentably distinct species of the claimed invention:

Species 1 embodied in FIGURE 1; and

Species 2 embodied in FIGURE 2.

The Examiner further asserts in the Office Action that Species 1 contains more than one invention, namely:

Group I: including claims drawn to the subject matter of image decomposition; and

Group II: including claims drawn to the subject matter of manipulating a data stream in a xerographic image processing device.

Election

In response to the requirement to elect a single species, as set forth in the Office Action, Applicant hereby elects with traverse Species 1. In response to the requirement to elect a single invention of Species 1, as set forth in the Office Action, Applicant hereby elects with traverse Group I.

Generic Claims

The Office Action indicates that no claims are considered generic. After a careful review of the present application, Applicant respectfully disagrees and submits that at least claims 1, 9 and 14 are generic, as these claims read on both of the above-referenced species.

Notably, claim 1 recites:

A method of processing compressed digital image data (e.g., see element 12 in both FIGURES 1 & 2) comprising:

receiving the digital image data compressed according to a defined pattern matching technique, where the digital image data includes coded image content data and a decoding pattern dictionary containing image patterns substitutable for the coded image content data (note, e.g., the image processor 20 in FIGURE 1 and image processor 50 in FIGURE 2 each receive a data stream including coded image content data 14 and a

decoding pattern dictionary 16); and

revising an image pattern in the decoding pattern dictionary (note, e.g., both FIGURES 1 & 2 show a dictionary (not labeled), a "process dictionary" element or step, 22 and 74, respectively, and a revised dictionary, 24 and 62, respectively).

Accordingly, claim 1 reads on both the embodiments of FIGURES 1 and 2.

Similarly, claim 9 recites:

In an image processing system (e.g., elements 10 & 10' in both FIGURES 1 & 2) which receives image data (e.g., element 12 in both FIGURES 1 & 2) compressed by a pattern matching process, a method of decompressing the image data comprising in optional sequence:

adjusting an output appearance of at least one pattern in a database of stored post-compression patterns, the adjusting responsive to characteristics of a desired output mechanism (note, e.g., both FIGURES 1 & 2 show a dictionary (not labeled), a "process dictionary" element or step, 22 and 74, respectively, and a revised dictionary, 24 and 62, respectively);

receiving an input pattern location corresponding to a post-compression pattern in the database (note, e.g., the image processor 20 in FIGURE 1 and image processor 50 in FIGURE 2 each receive image data 12); and

extracting the adjusted post-compression pattern from the database (note, e.g., the image processor 20 in FIGURE 1 receives a revised image pattern 28 from the revised dictionary 24, and the image processor 50 in FIGURE 2 receives the revised symbol 66 from the revised dictionary 62).

Accordingly, claim 9 reads on both the embodiments of FIGURES 1 and 2.

Claim 14 recites:

In a xerographic image processing device (e.g., elements 10 & 10' in both FIGURES 1 & 2) which, a method of manipulating the data stream comprising:

receiving the data stream including an output pattern dictionary and a coded portion referencing identifiable patterns in the output pattern dictionary (note, e.g., the image processor 20 in FIGURE 1 and image processor 50 in FIGURE 2 each receive a

stream of image data 12 including coded image content data 14 and a decoding pattern dictionary 16);

image processing a pattern in the output pattern dictionary (note, e.g., both FIGURES 1 & 2 show a dictionary (not labeled), and a "process dictionary" element or step, 22 and 74, respectively); and

replacing the pattern in the output pattern dictionary with the image processed pattern (note, e.g., both FIGURES 1 & 2 show a revised dictionary, 24 and 62, respectively).

Accordingly, claim 14 reads on both the embodiments of FIGURES 1 and 2.

Listing of Claims Readable on Species 1

Applicant submits that all the claims (i.e., claims 1-17) are readable on Species 1, and accordingly they should all be examined together.

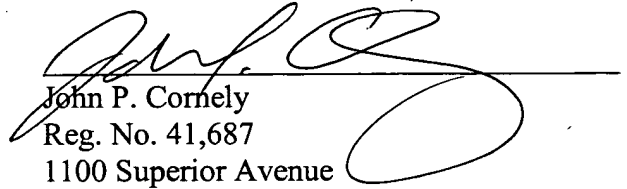## Traverse of Restriction between Groups I & II

Applicants respectfully disagree that the inventions of Group I & II are related as a combination and subcombination. Applicant further points out that the subject mater is not significantly divergent, and that both Groups require the same field of search. Indeed, Applicant believes that the Examiner will have to search in each of the class/subclass definitions identified in the Office Action regardless of which Group is elected. Accordingly, no additional burden is placed on the Examiner by having all the claims examined together. Restriction is therefore improper.

Conclusion

Applicant contents that the foregoing election is fully responsive to the outstanding requirements. Examination of all the claims in the application is respectfully requested, and an early notification of allowability is earnestly solicited. If a telephone call would help to resolve any further issues, the Examiner is invited to call the undersigned.

Respectfully submitted,

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